

# **Duralux Marine Enamel Signal Yellow - M744** ICP Building Solutions Group

Version No: 1.2
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 10/06/2021 Print Date: 10/19/2021 S.GHS.USA.EN

# **SECTION 1 Identification**

### **Product Identifier**

Product name Duralux Marine Enamel Signal Yellow - M744	
Synonyms Not Available	
Proper shipping name Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base	
Other means of identification	Not Available

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Marine Ename

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

, , , , , , , , , , , , , , , , , , , ,	
Registered company name ICP Building Solutions Group	
Address 150 Dascomb Road Andover MA 01810 United States	
978-623-9980	
Fax Not Available	
Website www.icpgroup.com	
sds@icpgroup.com	

# Emergency phone number

Association / Organisation	Chemtel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

# SECTION 2 Hazard(s) identification

## Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Skin Corrosion/Irritation Category 2, Carcinogenicity Category 1A, Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1, Aspiration Hazard Category 1

### Label elements

Hazard pictogram(s)







Signal word

Danger

### Hazard statement(s)

(-)	
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

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H336	May cause drowsiness or dizziness.
H315	Causes skin irritation.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.

# Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) General

, , ,	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

# Precautionary statement(s) Prevention

resolutionary statement(s) revenuen	
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof (electrical/ventilating/lighting) equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection.

# Precautionary statement(s) Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P331 Do NOT induce vomiting.	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF Exposed or concerned: Get medical advice/attention.	
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse SKIN with water (or shower)	
IF Skin irritation or rash occurs: Get medical advice/attention.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
IF Eye irritation persists: Get medical advice/attention.	
Wash contaminated clothing before reuse.	

### Precautionary statement(s) Storage

P403+P235 Store in a well-ventilated place. Keep cool.	
P405	Store locked up.

# Precautionary statement(s) Disposal

**P501** Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

# Mixtures

mixture of		
CAS No	%[weight]	Name
51274-00-1	3-10	C.I. Pigment Yellow 42
1330-20-7	1-5	xylene
64741-91-9.	10-30	C14-20 aliphatics (<=2% aromatics)
100-41-4	.1-1	<u>ethylbenzene</u>
96-29-7	.1-1	methyl ethyl ketoxime
26264-05-1	1-5	dodecylbenzenesulfonatic acid. isopropylamine salt
22464-99-9	.1-1	zirconium 2-ethylhexanoate

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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### **SECTION 4 First-aid measures**

Description of first aid measures

### If this product comes in contact with the eyes: Wash out immediately with fresh running water. Figure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper **Eye Contact** and lower lids. ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary.

- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do **NOT** induce vomiting. If yomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink
- Seek medical advice.
- Avoid giving milk or oils.
- Avoid giving alcohol.

### Most important symptoms and effects, both acute and delayed

Ingestion

See Section 11

### Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. For petroleum distillates

- In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration
- Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.
- Positive pressure ventilation may be necessary.
- Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment. Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

BP America Product Safety & Toxicology Department

For acute or short term repeated exposures to iron and its derivatives:

- Always treat symptoms rather than history
- In general, however, toxic doses exceed 20 mg/kg of ingested material (as elemental iron) with lethal doses exceeding 180 mg/kg.
- Control of iron stores depend on variation in absorption rather than excretion. Absorption occurs through aspiration, ingestion and burned skin.
- Hepatic damage may progress to failure with hypoprothrombinaemia and hypoglycaemia. Hepatorenal syndrome may occur.
- Iron intoxication may also result in decreased cardiac output and increased cardiac pooling which subsequently produces hypotension
- Serum iron should be analysed in symptomatic patients. Serum iron levels (2-4 hrs post-ingestion) greater that 100 ug/dL indicate poisoning with levels, in excess of 350 ug/dL, being potentially serious. Emesis or lavage (for obtunded patients with no gag reflex) are the usual means of decontamination.
- Activated charcoal does not effectively bind iron.
- Catharsis (using sodium sulfate or magnesium sulfate) may only be used if the patient already has diarrhoea.
- Deferoxamine is a specific chelator of ferric (3+) iron and is currently the antidote of choice. It should be administered parenterally. [Ellenhorn and Barceloux: Medical Toxicology] For acute or short term repeated exposures to xylene
- F Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g., Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments Methylhippu-ric acids in urine 1.5 gm/gm creatinine End of shift Last 4 hrs of shift 2 mg/min

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### **Extinguishing media**

- Foam
- Dry chemical powder.

### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Special protective equipment and precautions for fire-fighters

# Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ May be violently or explosively reactive

Liquid and vapour are flammable. ▶ Moderate fire hazard when exposed to heat or flame.

Combustion products include:

Fire/Explosion Hazard

carbon dioxide (CO2) carbon monoxide (CO)

other pyrolysis products typical of burning organic material.

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills  Remove all ignition sources.  Clean up all spills immediately.	
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

### Precautions for safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

### Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- ▶ Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- ▶ Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of overexposure occurs. DO NOT allow clothing wet with material to stay in contact with skin

# Other information

- ▶ Store in original containers in approved flammable liquid storage area.
- Store away from incompatible materials in a cool, dry, well-ventilated area.

# Conditions for safe storage, including any incompatibilities

### Suitable container

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.

# For iron oxide (ferric oxide):

- Avoid storage with aluminium, calcium hypochlorite and ethylene oxide.
- Risk of explosion occurs following reaction with powdered aluminium, calcium silicide, ethylene oxide (polymerises), carbon monoxide, magnesium and perchlorates.

# Xylenes:

### Storage incompatibility

- ready ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride
- attack some plastics, rubber and coatings
- may generate electrostatic charges on flow or agitation due to low conductivity.
- Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.
- Aromatics can react exothermically with bases and with diazo compounds

### For alkyl aromatics

The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.

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# SECTION 8 Exposure controls / personal protection

# **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Pigment Yellow 42	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Pigment Yellow 42	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Pigment Yellow 42	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Pigment Yellow 42	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	C.I. Pigment Yellow 42	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	xylene	Xylenes (o-, m-, p-isomers)	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	xylene	Xylene (all isomers)	100 ppm	150 ppm	Not Available	(); A4; BEI
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C14-20 aliphatics (<=2% aromatics)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	C14-20 aliphatics (<=2% aromatics)	Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter)	5 mg/m3	Not Available	Not Available	A4
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	545 mg/m3 / 125 ppm	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ethylbenzene	Ethyl benzene	20 ppm	Not Available	Not Available	(); A3; BEI
US OSHA Permissible Exposure Limits (PELs) Table Z-3	zirconium 2-ethylhexanoate	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	zirconium 2-ethylhexanoate	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zirconium 2-ethylhexanoate	Zirconium compounds (as Zr)	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zirconium 2-ethylhexanoate	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zirconium 2-ethylhexanoate	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	zirconium 2-ethylhexanoate	Zirconium compounds (as Zr)	5 mg/m3	10 mg/m3	Not Available	[*Note: The REL applies to all zirconium compounds (as Zr) except Zirconium tetrachloride.]
US NIOSH Recommended Exposure Limits (RELs)	zirconium 2-ethylhexanoate	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US ACGIH Threshold Limit Values (TLV)	zirconium 2-ethylhexanoate	Zirconium and compounds, as Zr	5 mg/m3	10 mg/m3	Not Available	A4

# Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
xylene	Not Available	Not Available	Not Available
C14-20 aliphatics (<=2% aromatics)	1,100 mg/m3	1,800 mg/m3	40,000 mg/m3
ethylbenzene	Not Available	Not Available	Not Available
methyl ethyl ketoxime	30 ppm	56 ppm	250 ppm

Ingredient	Original IDLH	Revised IDLH
C.I. Pigment Yellow 42	Not Available	Not Available
xylene	900 ppm	Not Available
C14-20 aliphatics (<=2% aromatics)	2,500 mg/m3	Not Available
ethylbenzene	800 ppm	Not Available
methyl ethyl ketoxime	Not Available	Not Available
dodecylbenzenesulfonatic acid, isopropylamine salt	Not Available	Not Available

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Ingredient	Original IDLH	Revised IDLH				
zirconium 2-ethylhexanoate	25 mg/m3	Not Available				
Occupational Exposure Banding						
Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit					
methyl ethyl ketoxime	D	> 0.1 to ≤ 1 ppm				
dodecylbenzenesulfonatic acid, isopropylamine salt	Е	≤ 0.1 ppm				
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.					

### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

### Personal protection









### Eye and face protection

- ▶ Safety glasses with side shields.
- Chemical goggles.

### Skin protection

See Hand protection below

- ► Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

### NOTE:

### Hands/feet protection

• The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### **Body protection**

See Other protection below

# Other protection

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges.
- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels.
- Overalls.
- PVC Apron.
- ▶ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).

# Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Not Available				
Physical state	Liquid	Relative density (Water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Available	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		

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Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	40.56	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information				
Information on toxicological e	ffects			
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.  Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.  Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.  Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers.  Xylene is a central nervous system depressant			
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)  The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.  Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.			
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Еуе	This material can cause eye irritation and damage in some persons.  Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.			
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is sufficient evidence to suggest that this material directly causes cancer in humans.  Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.  Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.  Chronic excessive intake of iron have been associated with damage to the liver and pancreas. People with a genetic disposition to poor control over iron are at an increased risk.			

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Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

Duralux Marine Enamel Signal Yellow - M744				IRRITATION		
1 ellow - W/7 44	Not Available Not Available					
	TOMOTY				IRRITATION	
C.I. Pigment Yellow 42	TOXICITY				-	
	Oral(Rat) LD50; >5000 mg/kg <sup>[2]</sup>				Not Available	
	TOXICITY IRRITATION					
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup> Eye			Eye (human): 200 ppm irritant		
	Inhalation(Rat) LC50; 5922 ppm4h <sup>[1]</sup> Eye			Eye (rabbit): 5 mg/24h SEVERE		
xylene				ye (rabbit): 87 mg mild		
,				effect observed (	irritating\[1]	
				600 mg/24h mode		
				effect observed		
			Omin. davoroo	Circuit Observed	(initiality)	
	TOXICITY	IRR	ITATION			
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye	: Not irritating	(OECD 405) *		
C14-20 aliphatics (<=2%	Inhalation(Rat) LC50; 4.6 mg/l4h <sup>[2]</sup>			fect observed (no	ot irritating) <sup>[1]</sup>	
aromatics)	Oral(Rat) LD50; 7400 mg/kg <sup>[2]</sup>		: Not irritating	· · · · · · · · · · · · · · · · · · ·	,	
		Skir	: adverse effe	ct observed (irrita	iting)[1]	
					o,	
	TOXICITY IRRITATION					
	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup> Eye (rabbit): 500 mg - SEVERE					
ethylbenzene	Inhalation(Rat) LC50; 17.2 mg/l4h <sup>[2]</sup> Eye: no adverse effect observed (not			ot irritating) <sup>[1]</sup>		
·	Oral(Rat) LD50; ~3523 mg/kg <sup>[2]</sup> Skin (rabbit): 15 mg/24h mild			<u>,                                     </u>		
	Skin: no adverse effect observed (no			ot irritating) <sup>[1]</sup>		
	TOXICITY			IRRITATION		
	Dermal (rabbit) LD50: >184<1840 mg/kg <sup>[1]</sup>			Eye (rabbit): 0.	1 ml - SEVERE	
methyl ethyl ketoxime	Inhalation(Rat) LC50; >4.83 mg/l4h <sup>[1]</sup>					
	Oral(Rat) LD50; >900 mg/kg <sup>[1]</sup>					
dodecylbenzenesulfonatic	TOXICITY	TOXICITY			IRRITATION	
acid, isopropylamine salt	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>				Not Available	
	TOXICITY				IRRITATION	
zirconium 2-ethylhexanoate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>				Not Available	
, , , , , , , , , , , , , , , , , , , ,	Inhalation(Rat) LC50; >4.3 mg/l4h <sup>[1]</sup>					
	Oral(Rat) LD50; 2043 mg/kg <sup>[1]</sup>					
Legend:	Value obtained from Europe ECHA Registered Su	ubstances - Acute	toxicitv 2.* Va	lue obtained from	n manufacturer's SDS. Unless otherwise	
	specified data extracted from RTECS - Register of T					
C.I. PIGMENT YELLOW 42	Asthma-like symptoms may continue for months condition known as reactive airways dysfunction compound.	•	•			
XYLENE						
C14-20 ALIPHATICS (<=2% AROMATICS)						
ETHYLBENZENE	Liver changes, utheral tract, effects on fertility, for Ethylbenzene is readily absorbed when inhaled, sthrough urine.  NOTE: Substance has been shown to be mutage college DNA	swallowed or in c	ontact with the	skin. It is distribu	ited throughout the body, and passed out	

cellular DNA.

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### **Duralux Marine Enamel Signal Yellow - M744**

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WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

METHYL ETHYL KETOXIME

Mammalian lymphocyte mutagen \*Huls Canada \*\* Merck

For methyl ethyl ketoxime (MEKO): At medium to high concentrations, MEKO increased the rate of liver tumours in animal testing. This seems to be due to the breakdown of MEKO into a cancer-causing substance, and occurred more often in males.

### **DODECYLBENZENESULFONATIC** ACID, ISOPROPYLAMINE SALT

Linear alkyl benzene sulfonates are derived from strong corrosive acids. Animal testing has shown they can cause skin reactions, eye irritation, sluggishness, passage of frequent watery stools, weakness and may lead to death.

For aliphatic fatty acids (and salts)

Acute oral (gavage) toxicity:

### ZIRCONIUM 2-ETHYLHEXANOATE

The acute oral LD50 values in rats for both were greater than >2000 mg/kg bw Clinical signs were generally associated with poor condition following administration of high doses (salivation, diarrhoea, staining, piloerection and lethargy). There were no adverse effects on body weight in any study In some studies, excess test substance and/or irritation in the gastrointestinal tract was observed at necropsy. Skin and eye irritation potential, with a few stated exceptions, is chain length dependent and decreases with increasing chain length According to several OECD test regimes the animal skin irritation studies indicate that the C6-10 aliphatic acids are severely irritating or corrosive, while the C12 aliphatic acid is irritating, and the C14-22 aliphatic acids generally are not irritating or mildly irritating. Human skin irritation studies using more realistic exposures (30-minute,1-hour or 24-hours) indicate that the aliphatic acids have sufficient, good or very good skin compatibility.

Animal eye irritation studies indicate that among the aliphatic acids, the C8-12 aliphatic acids are irritating to the eye while the C14-22 aliphatic acids are not irritating

Fatty acid salts of low acute toxicity. Their potential to irritate the skin and eyes is dependent on chain length

**Duralux Marine Enamel Signal** Yellow - M744 & METHYL ETHYL KETOXIME The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

**Duralux Marine Enamel Signal** Yellow - M744 & C14-20 ALIPHATICS (<=2% AROMATICS)

Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species

C.I. PIGMENT YELLOW 42 & **DODECYLBENZENESULFONATIC ACID, ISOPROPYLAMINE SALT &** ZIRCONIUM 2-ETHYLHEXANOATE

No significant acute toxicological data identified in literature search.

**C.I. PIGMENT YELLOW 42 & XYLENE**  The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.

**XYLENE & ETHYLBENZENE** 

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Acute Toxicity	×	Carcinogenicity	✓
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	~
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	✓

Legend:

★ - Data either not available or does not fill the criteria for classification

- Data available to make classification

### **SECTION 12 Ecological information**

# **Toxicity**

Duralux Marine Enamel Signal Yellow - M744	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available

# C.I. Pigment Yellow 42

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	504h	Fish	0.52mg/l	2
EC50	72h	Algae or other aquatic plants	18mg/l	2
LC50	96h	Fish	0.05mg/l	2

# xylene

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	4.6mg/l	2
LC50	96h	Fish	2.6mg/l	2
EC50	48h	Crustacea	1.8mg/l	2
NOEC(ECx)	73h	Algae or other aquatic plants	0.44mg/l	2

### C14-20 aliphatics (<=2% aromatics)

Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	72h	Algae or other aquatic plants	<0.03mg/l	1
NOEC(ECx)	3072h	Fish	1mg/l	1

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### **Duralux Marine Enamel Signal Yellow - M744**

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ethv	/lbenzene

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	4.6mg/l	1
LC50	96h	Fish	3.381-4.075mg/L	4
EC50	48h	Crustacea	1.37-4.4mg/l	4
NOEC(ECx)	720h	Fish	0.381mg/L	4
EC50	96h	Algae or other aquatic plants	3.6mg/l	2

# methyl ethyl ketoxime

Endpoint	Test Duration (hr)	Species	Value	Source
BCF	1008h	Fish	0.5-0.6	7
NOEC(ECx)	72h	Algae or other aquatic plants	~1.02mg/l	2
EC50	72h	Algae or other aquatic plants	~6.09mg/l	2
LC50	96h	Fish	>100mg/l	2
EC50	48h	Crustacea	~201mg/l	2

# dodecylbenzenesulfonatic acid, isopropylamine salt

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	>100mg/l	2
EC50	48h	Crustacea	6.7mg/l	2
NOEC(ECx)	72h	Algae or other aquatic plants	3.2mg/l	2

# zirconium 2-ethylhexanoate

Endpoint	Test Duration (hr)	Species	Value	Source
EC50(ECx)	48h	Crustacea	>0.17mg/l	2
EC50	72h	Algae or other aquatic plants	49.3mg/l	2
EC50	48h	Crustacea	>0.17mg/l	2
LC50	96h	Fish	>100mg/l	2

### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

- b drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- $\mbox{\Large \ \, }$  lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization.

For petroleum distillates:

Environmental fate:

When petroleum substances are released into the environment, four major fate processes will take place: dissolution in water, volatilization, biodegradation and adsorption. These processes will cause changes in the composition of these UVCB substances.

For Organic Pigments:

Environmental Fate: Organic pigments are highly persistent in natural environments.

Atmospheric Fate: The chemical processes underlying breakdown of organic pigments through light or atmospheric conditions are difficult to clarify.

For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants. BCF value: 1-350.

For Xvlenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process.

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
methyl ethyl ketoxime	LOW	LOW

### Bioaccumulative potential

zioacoaiiiaiaii o potoiiiai	
Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)

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# **Duralux Marine Enamel Signal Yellow - M744**

Ingredient	Bioaccumulation
C14-20 aliphatics (<=2% aromatics)	LOW (BCF = 159)
ethylbenzene	LOW (BCF = 79.43)
methyl ethyl ketoxime	LOW (BCF = 5.8)

### Mobility in soil

Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)
methyl ethyl ketoxime	LOW (KOC = 130.8)

# **SECTION 13 Disposal considerations**

### Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

# Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

# **SECTION 14 Transport information**

### **Labels Required**



Marine Pollutant NO

# Land transport (DOT)

UN number	1263		
UN proper shipping name	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Hazard Label         3           Special provisions         367, B1, B52, B131, IB3, T2, TP1, TP29		

# Air transport (ICAO-IATA / DGR)

UN number	1263			
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions  Cargo Only Packing Instructions  Cargo Only Maximum Qty / Pack  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Passenger and Cargo Limited Maximum Qty / Pack		A3 A72 A192 366 220 L 355 60 L Y344 10 L	

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### **Duralux Marine Enamel Signal Yellow - M744**

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### Sea transport (IMDG-Code / GGVSee)

UN number	1263		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E , S-E Special provisions 163 223 367 955 Limited Quantities 5 L		

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group	
C.I. Pigment Yellow 42	Not Available	
xylene	Not Available	
C14-20 aliphatics (<=2% aromatics)	Not Available	
ethylbenzene	Not Available	
methyl ethyl ketoxime	Not Available	
dodecylbenzenesulfonatic acid, isopropylamine salt	Not Available	
zirconium 2-ethylhexanoate	Not Available	

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
C.I. Pigment Yellow 42	Not Available
xylene	Not Available
C14-20 aliphatics (<=2% aromatics)	Not Available
ethylbenzene	Not Available
methyl ethyl ketoxime	Not Available
dodecylbenzenesulfonatic acid, isopropylamine salt	Not Available
zirconium 2-ethylhexanoate	Not Available

# **SECTION 15 Regulatory information**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

# C.I. Pigment Yellow 42 is found on the following regulatory lists

US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Limits (PELs) Table Z-1 US OSHA Permissible Exposure Limits (PELs) Table Z-3 US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

# xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - Massachusetts - Right To Know Listed Chemicals

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

# US CWA (Clean Water Act) - List of Hazardous Substances US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

# C14-20 aliphatics (<=2% aromatics) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

ethylbenzene is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

### methyl ethyl ketoxime is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

US TSCA Chemical Substance Inventory - Interim List of Active Substances US TSCA Section 4/12 (b) - Sunset Dates/Status

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### dodecylbenzenesulfonatic acid, isopropylamine salt is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### zirconium 2-ethylhexanoate is found on the following regulatory lists

US ACGIH Threshold Limit Values (TLV)
US ACGIH Threshold Limit Values (TLV) - Carcinogens
US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List

US CWA (Clean Water Act) - List of Hazardous Substances

US DOE Temporary Emergency Exposure Limits (TEELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

### **Federal Regulations**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	Yes
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
xylene	100	45.4
ethylbenzene	1000	454

# State Regulations

### US. California Proposition 65



**WARNING:** This product can expose you to chemicals including **ethylbenzene**, which is known to the State of California to cause cancer. For more information, go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

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### **Duralux Marine Enamel Signal Yellow - M744**

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### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (C.I. Pigment Yellow 42; xylene; C14-20 aliphatics (<=2% aromatics); ethylbenzene; methyl ethyl ketoxime; zirconium 2-ethylhexanoate) aromatics);=" ethylbenzene;=" methyl=" ethyl=" ketoxime;=" zirconium=">	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (dodecylbenzenesulfonatic acid, isopropylamine salt)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (dodecylbenzenesulfonatic acid, isopropylamine salt; zirconium 2-ethylhexanoate)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (C.I. Pigment Yellow 42)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

### **SECTION 16 Other information**

Revision Date	10/06/2021
Initial Date	09/30/2021

### CONTACT POINT

### **SDS Version Summary**

Version	Date of Update	Sections Updated
0.2	10/06/2021	Disposal, Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Handling Procedure, Ingredients, Personal Protection (other), Spills (major), Storage (storage requirement), Storage (suitable container), Transport, Transport Information

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

<sup>\*\*</sup>PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

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